

# Module of Opportunity: Next steps

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# Schedule

- Current DUNE schedule is intended to ensure detectors are ready at earliest possible availability of caverns. Baselineing of US project (CD2/3b) in 2020 will define final schedule.

Start of Module 1 Installation: August 2024

Start of Module 2 Installation: August 2025

End of Module 2 Installation: May 2026

- Module 4 cryostat installation could begin ~ 1 year after end of module 2 installation: mid-2027.
- Lead-time to order cryostat 4 sets latest time for technology choice for module 4.
- On the above technically limited schedule, assuming 3-year lead time for cryostat order, this date would be mid-2024.

# Concept Papers

- Workshop included some whole detector concepts and many individual technology ideas
- As a next step, we propose that groups assemble short “concept papers” describing complete detector concepts
- In addition to detector description, these short documents should summarize
  - Physics capability compared to DUNE SP modules (including impact of the DUNE ND for oscillation physics)
  - Required R&D and prototype plans (any technology will need demonstration of performance and stable operation, as has been done with ProtoDUNE-SP)
  - Infrastructure requirements (for any non-LAr option)
  - Rough core cost estimate
- These concept papers will form the basis for a workshop in 2020.

We will communicate this plan (perhaps with some minor revisions) within the next few weeks.

# Thank you

Thank you to all of the speakers, and to Steve and all of the organizers for an extremely interesting workshop.